



FORM PTO-1449

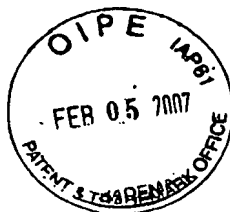
INFORMATION DISCLOSURE STATEMENT BY APPLICANT(S)

Docket No.: 6495-0108WOUS
 Applicant: Peter Gravesen, et al.
 Title: Tactile Sensor Element and
 Sensor Array

U.S. Serial No.: 10/538,260
 U.S. Filing Date: 06/09/2005
 Group Art Unit: 2855

U.S. PATENT DOCUMENTS

<u>Examiner's Initials</u>	<u>Patent Number</u>	<u>Patent Date</u>	<u>Name</u>	<u>Class Subclass</u>
/OD/	3,753,294	08/21/1973	Attali et al.	33/133
/OD/	4,266,263	05/05/1981	Haberl et al.	361/283
/OD/	4,386,386	05/31/1983	Akita	361/283
/OD/	4,494,409	01/22/1985	Kondo et al.	73/651
/OD/	4,654,546	03/31/1987	Kirjavainen	307/400
/OD/	4,836,033	06/06/1989	Seitz	73/862.04
/OD/	5,060,527	10/29/1991	Burgess	73/862.68
/OD/	5,090,248	02/25/1992	Cimmino et al.	73/780
/OD/	5,115,680	05/26/1992	Lew	73/763
/OD/	5,173,162	12/22/1992	Hagimura et al.	204/299
/OD/	5,255,972	10/26/1993	Shirasu	60/528
/OD/	5,410,210	04/25/1995	Sato et al.	310/363
/OD/	5,425,275	06/20/1995	Lockshaw	73/775
/OD/	5,755,090	05/26/1998	Hu	60/39.091
/OD/	5,841,143	11/24/1998	Tuma et al.	250/458.1
/OD/	5,977,685	11/02/1999	Kurita et al.	310/311
/OD/	6,210,514 B1	04/03/2001	Cheung et al.	156/241
/OD/	6,282,956 B1	09/04/2001	Okada	73/504.12
/OD/	6,343,129 B1	01/29/2002	Pelrine et al.	381/191
/OD/	6,376,971 B1	04/23/2002	Pelrine et al.	310/363
/OD/	6,543,110 B1	04/08/2003	Pelrine et al.	29/25.35
/OD/	6,545,384 B1	04/08/2003	Pelrine et al.	310/309
/OD/	6,581,481 B1	06/24/2003	Perusek	73/862.337
/OD/	6,583,533 B2	06/24/2003	Pelrine et al.	310/309
/OD/	6,586,859 B2	07/01/2003	Kornbluh et al.	310/309
/OD/	6,628,040 B2	09/30/2003	Pelrine et al.	310/307
/OD/	6,662,658 B2	12/16/2003	Foote	73/514.29
/OD/	6,664,718 B2	12/16/2003	Pelrine et al.	310/800
/OD/	6,707,236 B2	03/16/2004	Pelrine et al.	310/800
/OD/	6,768,246 B2	07/27/2004	Pelrine et al.	310/339
/OD/	6,781,284 B1	08/24/2004	Pelrine et al.	310/330
/OD/	6,806,621 B2	10/19/2004	Heim et al.	310/328
/OD/	6,809,462 B2	10/26/2004	Pelrine et al.	310/800
/OD/	6,812,624 B1	11/02/2004	Pei et al.	310/800
/OD/	6,876,135 B2	04/05/2005	Pelrine et al.	310/339
/OD/	6,882,086 B2	04/19/2005	Kornbluh et al.	310/328



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U.S. PATENT DOCUMENTS (Con't)

<u>Examiner's Initials</u>	<u>Patent Number</u>	<u>Patent Date</u>	<u>Name</u>	<u>Class Subclass</u>
/OD/	6,891,317 B2	05/10/2005	Pei et al.	310/800
/OD/	6,911,764 B2	06/28/2005	Pelrine et al.	310/328
/OD/	6,940,211 B2	09/06/2005	Pelrine et al.	310/330
/OD/	7,034,432 B1	04/25/2006	Pelrine et al.	310/309
/OD/	7,049,732 B2	05/23/2006	Pei et al.	310/800
/OD/	7,064,472 B2	06/20/2006	Pelrine et al.	310/324

U.S. Patent Publications:

/OD/	US 2001/0035723 A1	11/01/2001	Pelrine et al.	318/116
/OD/	US 2001/0026165 A1	10/04/2001	Pelrine et al.	324/750
/OD/	US 2002/0008445 A1	01/24/2002	Pelrine et al.	310/330
/OD/	US 2002/0050768 A1	05/02/2002	Beck et al.	310/334
/OD/	US 2002/0130673 A1	09/19/2002	Pelrine et al.	324/727
/OD/	US 2002/0175594 A1	11/28/2002	Kornbluh et al.	310/317
/OD/	US 2002/0175598 A1	11/28/2002	Heim et al.	310/328
/OD/	US 2002/0185937 A1	12/12/2002	Heim et al.	310/339
/OD/	US 2003/0006669 A1	01/09/2003	Pei et al.	310/309
/OD/	US 2003/0066741 A1	04/10/2003	Burgess et al.	200/61.43
/OD/	US 2003/0067245 A1	04/10/2003	Pelrine et al.	310/311
/OD/	US 2003/0141787 A1	07/31/2003	Pelrine et al.	310/365
/OD/	US 2003/0141473 A1	07/31/2003	Pelrine et al.	251/129.06
/OD/	US 2003/0214199 A1	11/20/2003	Heim et al.	310/309
/OD/	US 2004/0008853 A1	01/15/2004	Pelrine et al.	381/191
/OD/	*US 2004/0012301 A1	01/22/2004	Benslimane et al.	310/311
/OD/	US 2004/0124738 A1	07/01/2004	Pelrine et al.	310/307
/OD/	US 2004/0217671 A1	11/04/2004	Rosenthal et al.	310/328
/OD/	US 2004/0232807 A1	11/25/2004	Pelrine et al.	310/800
/OD/	US 2004/0263028 A1	12/30/2004	Pei et al.	310/800
/OD/	US 2005/0157893 A1	07/21/2005	Pelrine et al.	381/190
/OD/	US 2006/0113878 A1	06/01/2006	Pei et al.	310/363
/OD/	US 2006/0113880 A1	06/01/2006	Pei et al.	310/800
/OD/	US 2006/0119225 A1	06/08/2006	Heim et al.	310/339
/OD/	US 2006/0158065 A1	07/20/2006	Pelrine et al.	310/328

FOREIGN PATENT DOCUMENTS

<u>Examiner's Initials</u>	<u>Document Number</u>	<u>Date</u>	<u>Country</u>	<u>Translation</u>	
/OD/	WO 96/34701	11/07/1996	PCT	X	
/OD/	WO 97/27822	08/07/1997	PCT	X	
/OD/	WO 00/66970	11/09/2000	PCT	X	
/OD/	WO 01/06575 A1	01/25/2001	PCT	X	
/OD/	WO 01/06579 A2	01/25/2001	PCT	X	

FOREIGN PATENT DOCUMENTS (Con't)

Examiner's Initials	Document Number	Date	Country	Translation	
				Yes	No
/OD/	WO 01/059852 A3	08/16/2001	PCT	X	
/OD/	WO 01/58973 A2	08/16/2001	PCT	X	
/OD/	WO 01/63738 A2	08/30/2001	PCT	X	
/OD/	WO 01/065615 A3	09/07/2001	PCT	X	
/OD/	WO 02/37660 A1	05/10/2002	PCT	Abstract	
/OD/	WO 2004/079832 A2	09/16/2004	PCT	X	
/OD/	WO 2005/081676 A2	09/09/2005	PCT	X	
/OD/	WO 2005/079187 A2	09/01/2005	PCT	X	
/OD/	0 387 180 A1	09/12/1990	EP	X	
/OD/	0 855 307 B1	03/26/2003	EP	X	
/OD/	30 06 620 A1	09/03/1981	DE	Abstract	
/OD/	30 23 218 A1	02/25/1982	DE	Abstract	
/OD/	198 26 391 A1	12/23/1999	DE	Abstract	
/OD/	100 54 247 A1	05/23/2000	DE	*See U.S. Equiv.	
/OD/	1-273372	11/01/1989	JP	Abstract	
/OD/	2 309 833	12/30/1976	FR	Abstract	
/OD/	2 793 937 A1	11/24/2000	FR	Abstract	

OTHER DOCUMENTS

Examiner's
Initials

/OD/ Copy of publication "High-field electrostriction of elastomeric polymer dielectrics for actuation" by Roy Kornbluh, et al., SRI International; SPIE Vol. 3669, pgs. 149-161; March 1999.

/OD/ Copy of publication "Micro-Electro-Mechanical Systems (MEMS) - 2000" by R. Trujillo, et al.; Presented at 2000 ASME International Mechanical Engineering Congress and Exposition, November 5-10, 2000; Orlando, FL; pgs. 709-716.

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